

What is claimed is:

- pub  
AB
- 5 1. An inkjet receptor medium, comprising:  
a porous substrate having a fluid management system and having a pigment management system in contact with surfaces of pores of the substrate therein.
- 10 2. The medium of Claim 1, wherein the pigment management system comprises functionalized particulates within the pores that chemically interact with pigment particles through interaction with dispersants engaged with the pigment particles.
- 15 3. The medium of Claim 1, wherein the pigment management system comprises a functionalized coating along the surfaces that chemically interact with pigment particles through interaction with dispersants engaged with the pigment particles.
- 20 4. The medium of Claim 3, wherein the functionalized coating comprises a multivalent metal salt that interacts with dispersants to agglomerate pigment particles as an ink containing the pigment particles passes through pores.
- 25 5. The medium of Claim 2, wherein the functionalized particulates comprise fluorinated silica agglomerates that interact with dispersant to agglomerate pigment particles as an ink containing the pigment particles passes through pores.
6. The medium of Claim 1, wherein the fluid management system comprises porosity itself of the porous substrate.
- 40

7. The medium according to Claim 1, wherein the fluid management system comprises a surfactant that carries away an ink passing through the substrate except for pigment particles in the ink.

5 8. The medium according to Claim 2, wherein the fluid management system comprises a surfactant that carries away an ink passing through the substrate except for pigment particles in the ink.

10 9. The medium according to Claim 3, wherein the fluid management system comprises a surfactant that carries away an ink passing through the substrate except for pigment particles in the ink.

15 10. The medium according to Claim 1, wherein the microporous substrate comprises a polypropylene film co-extruded with a mineral oil followed by bi-axial stretching under thermal conditions.

11. The medium according to Claim 10, wherein the microporous substrate is an opaque film.

20 12. The medium according to Claim 9, wherein the surfactant is selected from the group consisting of fluorocarbon, silicon, hydrocarbon-based surfactants or a mixture thereof.

25 13. The medium according to Claim 12, wherein the surfactant comprises a silicon-based non-ionic surfactant.

14. The medium according to Claim 12, wherein the surfactant comprises a hydrocarbon surfactant of long-chain fatty acid.

30 15. The medium according to Claim 9, wherein the salts comprises inorganic multivalent salts of cations derived from the elements of Group II and

abovein the Periodic Table within conditions of solubility rules, wherein the salts comprises a single salt or a binary salt or a ternary salt containing counterions selected from the group consisting of nitrate, nitrite, sulfate, sulfite, bisulfite, alkanesulfonate, fluoroalkanesulfonates, perchlorate, halide, pseudo-halides and combinations thereof.

16. A method of making an inkjet receptor medium, comprising the steps of:

- (a) preparing a pigment management system; and
- (b) imbining the pigment management system into pores of a porous substrate, wherein the pigment management system is selected from the group consisting of functionalized particulates within the pores that chemically interact with the pigment particles through interaction with dispersants surrounding the pigment particles and a functionalized coating along the surfaces that chemically interact with pigment particles through interaction with dispersants surrounding the pigment particles.

17. The method according to Claim 16, further comprising the step (c) imbining a fluid management system into the pores of the porous substrate.

18. A method of using an inkjet receptor medium, comprising the steps of:

- (a) placing an inkjet receptor medium of Claim 1 in an inkjet printer; and
- (b) printing an image on the medium using inkjet ink, wherein pigment particles are agglomerated using the pigment management system and fluid is passed through pores of the porous substrate using the fluid management system.

19. The method according to Claim 18, wherein the pigment management system comprises functionalized particulates within the pores that

Sub  
BY  
Carmy 2

chemically interact with the pigment particles through interaction with dispersants surrounding the pigment particles.

20. The method according to Claim 18, wherein the pigment management system comprises a functionalized coating along the surfaces that
- 5 chemically interact with pigment particles through interaction with dispersants surrounding the pigment particles.

ADD A<sup>7</sup>

ADD B<sup>7</sup>

ADD C<sup>7</sup>

ADD D<sup>7</sup>

089900.0149  
"00526880"